

Analog Input/Output Cards

Interface	Analog Input			Analog Output			Digital I/O	Model Number					
	No. of Channels	Sampling Rate(Max.)	Resolution	No. of Channels	Update Rate(Max.)	Resolution			Waveform Generator				
USB	16-CH	250 kS/s	16-Bit	2-CH	1MS/s	16-Bit	YES	8 DI/4 DO					
	4-CH	2MS/s	16-Bit					4 DI/2 DO					
		2kS/s	24-Bit					2 GPIO					
		128kS/s	24-Bit										
	4-CH	2MS/s	14-Bit										
4-CH	500kS/s	16-Bit											
PCI/PCI Express®	96-CH	3MS/s	12-Bit	2-CH	1MS/s	12-Bit	YES	24 DI/24 DO					
	64-CH	500kS/s	16-Bit					24 DI/24 DO					
		250kS/s	16-Bit					24 DI/24 DO					
		250kS/s	16-Bit					24 DI/24 DO					
	16-CH	250kS/s	16-Bit					8 DI/4 DO					
	32-CH	500kS/s	16-Bit					16 DI/16 DO					
		250kS/s	16-Bit					16 DI/16 DO					
		100kS/s	12-Bit					16 DI/16 DO					
	16-CH	250kS/s	16-Bit					24 DI/24 DO					
		100kS/s	12-Bit					16 DI/16 DO					
		100kS/s	12-Bit					16 DI/16 DO					
	8-CH	400kS/s	14-Bit					4-CH	1MS/s	12-Bit	YES	24 DI/24 DO	
	4-CH	400kS/s	14-Bit					8-CH	1MS/s	12-Bit	YES	24 DI/24 DO	
	CompactPCI®	4-CH	2MS/s					14-Bit	2-CH	1MS/s	12-Bit	YES	4 DI/4 DO Isolated
			500kS/s					16-Bit					4 DI/4 DO
250kS/s			16-Bit	4 DI/4 DO									
250kS/s			16-Bit	4 DI/4 DO									
250kS/s			16-Bit	4 DI/4 DO									
8-CH		250kS/s	16-Bit	8-CH	Static	12-Bit		4 DI/4 DO					
16-CH		250kS/s	16-Bit	16-CH	Static	16-Bit		4 DI/4 DO					
CompactPCI®		64-CH	2MS/s	14-Bit	2-CH	1MS/s	12-Bit	YES	24 DI/24 DO				
			500kS/s	16-Bit					24 DI/24 DO				
			250kS/s	16-Bit					24 DI/24 DO				
	250kS/s		16-Bit	24 DI/24 DO									
	250kS/s		16-Bit	24 DI/24 DO									
8-CH	400kS/s	14-Bit	4-CH	1MS/s	12-Bit	YES	24 DI/24 DO						
4-CH	400kS/s	14-Bit	8-CH	1MS/s	12-Bit	YES	24 DI/24 DO						
CompactPCI®	64-CH	250kS/s	16-Bit	16-CH	Static	16-Bit		8 DI/8 DO					
								4 DI/4 DO					
								4 DI/4 DO					

Note: (1) HR: High gain (2) PCI-6x08A: Current Output available
 (3) Isolated analog input card (4) Current input: 0~20 mA
 (5) Universal input: Support voltage/current input, full/half bridge, TC, RTD, resistance measurement.

Digital Input/Output Cards

Interface	Type	Digital Input		Digital Output		DIO Update Rate(Max.)	Timer/Counter	Model Number		
		Range	No. of Channels	No. of Channels	Range				Driver Type	
USB	Isolated DIO	0-24 V	16-CH	16-CH	5-35 V	Power MOSFET	2-CH/32-Bit	USB-7230		
	Relay DO	Isolated	8-CH	8-CH	30 VDC, 2A 125VAC, 0.5A	Relay		USB-7250		
	High-Density Isolated DIO	0-28 V	128-CH	64-CH	64-CH	5-40V	Power MOSFET	PCI-7443		
			64-CH					PCI-7442		
	Isolated DIO	0-24 V	Isolated	32-CH	32-CH	5-35V	Darlington	PCI-7444		
				16-CH	16-CH			PCI-7433		
			0-50 V	Isolated	64-CH	32-CH	5-35V	Darlington	PCI-7233	
					32-CH	32-CH	5-35V	Darlington	PCI-7432, PCIe-7432	
			Relay DO	0-24 V	Isolated	16-CH	16-CH	350 V, 0.12 A	PhotoMos Relay	PCI/LPCI/LPCIe-7230
						8-CH	8-CH			125 VAC, 0.5 A 30 VDC, 1 A
Relay DO	0-24 V	Isolated	8-CH	8-CH	250 VAC, 5 A 30 VDC, 5 A	High-Power Relay	PCI-7432HIR, PCIe-7432HIR ⁽³⁾			
							16-CH	16-CH	120 VAC, 0.5 A 24 VDC, 1 A	Relay
			2-CH	32-CH	350 V, 0.12 A	PhotoMos Relay				
							16-CH	16-CH	125 VAC, 0.5 A 30 VDC, 1 A	Latching Relay
8-CH	8-CH	250 VAC, 5 A 30 VDC, 5 A	High-Power Relay	PCI-7256, PCIe-7256						
				High-Speed DIO	1.8V/2.5V/3.3V SW Selectable	32-CH S/W Programmable	32-CH	1.8V/2.5V/3.3V SW Selectable		200 MB/s
TTL DIO	5 V TTL	96-CH S/W Programmable	32-CH							
				Timer/Counter	8-CH	8-CH				80 MB/s
TTL DIO	5 V TTL	48-CH S/W Programmable	32-CH							
				Timer/Counter	8-CH	8-CH				80 MB/s
TTL DIO	0-24 V	48-CH S/W Programmable	32-CH							
				Timer/Counter	8-CH	8-CH				10-CH/16-Bit
TTL DIO	0-24 V	48-CH S/W Programmable	32-CH							
				Timer/Counter	8-CH	8-CH				10-CH/16-Bit
Isolated DIO	0-24 V	Isolated	64-CH							
				Relay DO	0-24 V	Isolated	16-CH	8-CH	120 VAC, 0.5 A 24 VDC, 1 A	Relay
High-Speed DIO	0-24 V	32-CH S/W Programmable	32-CH							
				TTL DIO	0-24 V	48-CH S/W Programmable	32-CH	5 V TTL		80 MB/s
Timer/Counter	8-CH	8-CH								
				TTL DIO	0-24 V	48-CH S/W Programmable	32-CH	5 V TTL		80 MB/s
Timer/Counter	8-CH	8-CH								
				TTL DIO	0-24 V	48-CH S/W Programmable	32-CH	5 V TTL		80 MB/s
Timer/Counter	8-CH	8-CH								
				TTL DIO	0-24 V	48-CH S/W Programmable	32-CH	5 V TTL		80 MB/s
Timer/Counter	8-CH	8-CH								

Note: (1) Opto-22 compatible (2) with 6U Eurocard form factor (3) HIR: High input range

Software Selection Guide

Products	Supported Operating System			Driver and SDK			Software Utility									
	Windows® (Note1)	Linux® (Note2)	Mac® (Note3)	LabVIEW™ (Note4)	Visual Studio.NET (Note5)	MATLAB® (Note6)	AD-Logger	U-Test	Others							
High-Performance DAQ	DAQ/DAQe/PXI-2005	D2K-DASK	D2K-DASK/X	-	DAQPilot	D2K-DASK	DAQ_MTLB	√	-	-						
	DAQ/DAQe/PXI-2006							√	-	-						
	DAQ/DAQe/PXI-2010							√	-	-						
	PXI-2020							√	-	-						
	PXI-2022							√	-	-						
	DAQ/DAQe/PXI-2204							√	-	-						
	DAQ/DAQe/PXI-2205							√	-	-						
	DAQ/DAQe/PXI-2206							√	-	-						
	DAQ/DAQe/PXI-2208							√	-	-						
	DAQ/DAQe-2213							√	-	-						
	DAQ/DAQe-2214							√	-	-						
	DAQ/DAQe/PXI-2501							√	-	-						
	DAQ/DAQe/PXI-2502							√	-	-						
	PCI-9221							PCIS-DASK	PCIS-DASK/X	-	-	-	-	√	-	-
	PCI-9222													√	-	-
PCI-9223	√	-	-													
General-Purpose DAQ	PCI-9111DG	PCIS-DASK	PCIS-DASK/X	-	DAQPilot	PCIS-DASK	DAQ_MTLB	√	-	-						
	PCI-9111HR							√	-	-						
	PCI-9112							√	-	-						
	PCI-9113A							√	-	-						
	PCI-9114A-DG							√	-	-						
	PCI-9114DG							√	-	-						
	PCI-9114A-HG							√	-	-						
	cPCI-9116							√	-	-						
USB DAQ	USB-1210	UD-DASK	UD-DASK/X	UD-DASK/M	DAQPilot	UD-DASK	-	-	√	-						
	USB-1901							-	√	-						
	USB-1902							-	√	-						
	USB-1903							-	√	-						
	USB-2401							-	√	-						
	USB-2405							-	√	Visual Signal DAQ Express						
	USB-7230							-	√	-						
	USB-7250							-	√	-						

Note:

(1) Support for Windows 2000/XP and Windows 7/8 x64/x86

(2) Linux

-UD-DASK/x support for Ubuntu 14.04.3 LTS (only x86_64)

-PCIS-DASK/x support for Ubuntu 12.04.1 LTS, Fedora Core 17, and OpenSuSe 12.1 (only x86)

-WD-DASK/x support for Ubuntu 12.04.1 LTS, Fedora Core 17, and OpenSuSe 12.1 (x86/x86_64)

(3) Support for Mac OS X 10.9 and later

Products	Supported Operating System		Driver and SDK			Software Utility			
	Windows® (Note1)	Linux® (Note2)	LabVIEW™ (Note4)	Visual Studio.NET (Note5)	MATLAB® (Note6)	AD-Logger	U-Test	Others	
Analog Output	PCI/cPCI-6208-A	PCIS-DASK	PCIS-DASK/X	DAQPilot	PCIS-DASK	-	-	-	-
	PCI/PCIe/cPCI-6208V-GL						-	-	-
	PCI/cPCI-6216V-GL						-	-	-
	PCI-6308A						-	-	-
	PCI-6308V						-	-	-
Digital I/O	PCI/PCIe-7200	PCIS-DASK	PCIS-DASK/X	DAQPilot	PCIS-DASK	DAQ_MTLB	√	-	-
	PCI-7224						√	-	-
	PCI/LPCI/LPCIe-7230						√	-	-
	PCI-7233						√	-	-
	PCI-7234						√	-	-
	PCI/cPCI/PCIe-7248						√	-	-
	PCI/LPCI/LPCIe-7250						√	-	-
	cPCI-7252						√	-	-
	PCI/PCIe-7256						√	-	-
	PCI-7258						√	-	-
	PCI-7260					√	-	-	
	PCI/PCIe-7296					√	-	-	
	PCIe-7300A, cPCI-7300					√	-	-	
	PCIe-7350					-	-	-	
	PCIe-7360					-	-	-	
	PCI-7396					√	-	-	
	PCI/PCIe/cPCI-7432					√	-	-	
	PCI/cPCI-7433					√	-	-	
	PCI/cPCI-7434					√	-	-	
	PCI-7442					√	-	-	
PCI-7443	√	-	-						
PCI-7444	√	-	-						
Timer Counter	PCI/cPCI-8554	PCIS-DASK	PCIS-DASK/X	DAQPilot	PCIS-DASK	DAQ_MTLB	√	-	-

(4) LabVIEW™

-Compatible with LabVIEW 8.0 and above

-DAQ-Pilot support for LabVIEW 32-bit & LabVIEW Polymorphic VI

(5) Compatible with Visual Studio .NET 2005/2008/2010, DASK for API

(6) MATLAB®

-Data Acquisition Toolbox 2.2 (and above) compliant

-DAQ-MTLB only support for earlier versions of MATLAB R2015a 32-bit